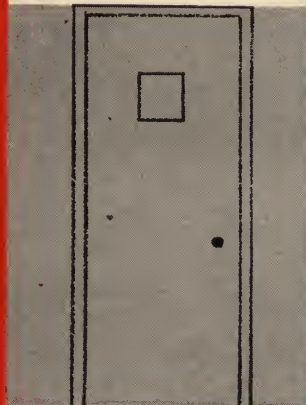


# AETNAPAK®

STEEL  
DOOR-AND-FRAME  
PACKAGES  
COMPLETE WITH  
HARDWARE.  
AVAILABLE FOR  
FAST DELIVERY—  
NO CUSTOM  
ENGINEERING  
DELAY.





## Aetna Steel Products Corporation

presents herewith specifications and details covering the Aetnapak line of stock-standard steel door-and-frame packages, complete with hardware; also standard-engineered door frames and combinations of borrowed lights, side lights, transoms.

This is a new concept of a Hollow Metal program in that the Aetnapak line is fabricated in such a way as to approximate as closely as possible the quality standards usually associated *only* with the finest of custom built products.

### AETNAPAK formula:

Custom quality, fast service, no custom-engineering delay.

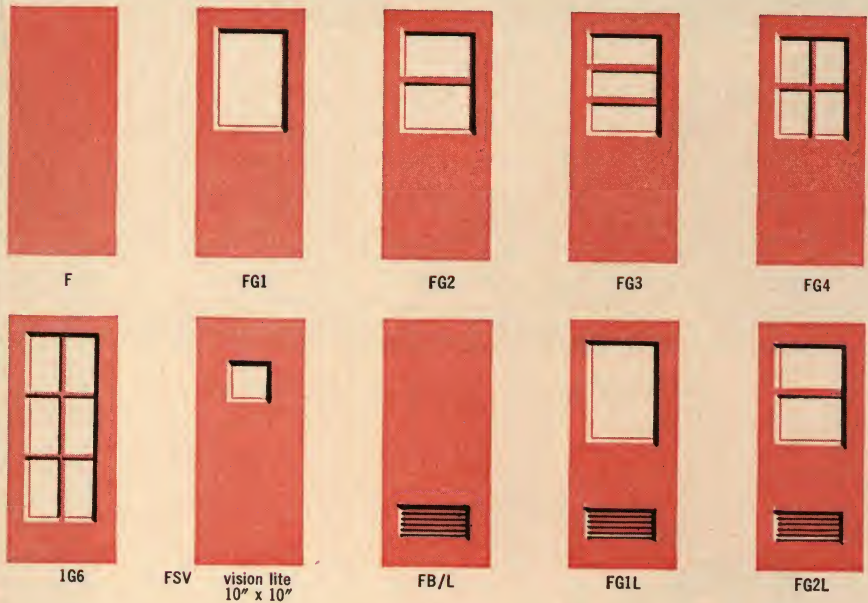
The following typically *custom* features are built into Aetnapak stock and standard-engineered doors and frames.

- Completely flush-designed doors with no exposed joints or surface defects.
- Uniform clearance at top and sides of door.
- Standard bevelled door stiles.
- Reinforced door and frame for closers—and other surface hardware where necessary.
- Mortised flush bolts (not surface applications).
- Frames either knock-down or set-up construction.
- Doors constructed of furniture grade steel.
- A completely finished product in every respect.

## door types

See back cover for: Underwriters Label Service

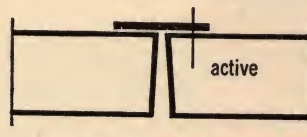
Details for Single Point A-Label Fyr-Chek Door Openings Shown Complete on Page



## details (stiles and top rails 5"; bottom rails 10")

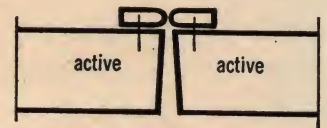


muntin



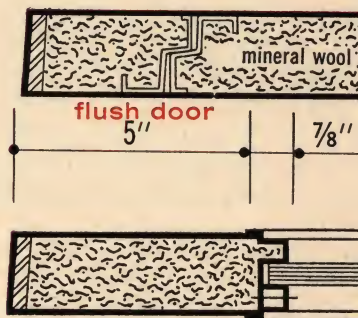
overlapping astragal

No. A1



split astragal

No. A2



flush door

glass lights



louver

free area  
of louver  
is 43  
percent

## door swings

regular hands (swing in)

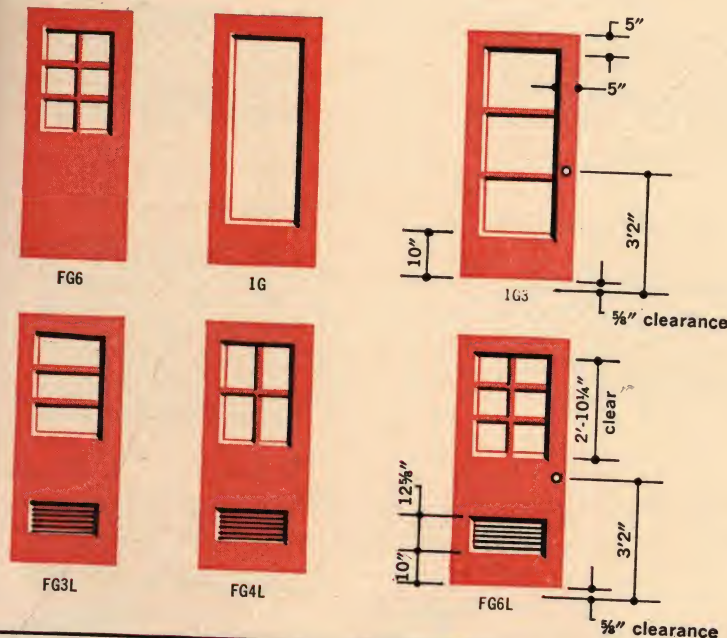


reverse bevel hands (swing out)



- Avoid custom-engineering delay.
- Specify AETNAPAK IN-STOCK or STANDARD-ENGINEERED doors and frames, complete with hardware.





## specifications

### • doors

Doors shall be as manufactured by Aetna Steel Products Corp. and shall be a completely flush design and shall be constructed of two outer sheets of 18-gauge, stretch-er-levelled steel formed and rigidly connected and re-inforced inside with continuous vertical interlocking 20-gauge stiffeners.

All doors shall be continuously arc welded vertically where the two outer sheets are joined and dressed smooth. All doors shall be sound-deadened with mineral wool.

All doors shall be 1 3/4" thick with glazing mouldings and muntin bars prepared for installation of 1/4" (maximum) thick glass. All mouldings and muntin bars shall be attached with oval-head screws. (See pages 2 and 3 for construction details, types, sizes, etc.)

Doors shall be mortised, reinforced, drilled and tapped for hinges, locks and flush bolts; also, reinforced for closers and other surface hardware where necessary. Any drilling and tapping required for surface hardware shall be done in the field by others. All hardware shall be applied by others in the field. (See pages 10 through 15 for available hardware.)

### • door frames

Frames shall be fabricated from 16 gauge steel. They shall be mortised, reinforced, drilled and tapped for hinges and lock strikes. Also reinforced for closers and any other surface hardware where necessary. Frames are set-up construction with arc welded miters. Rubber door silencers shall be furnished for the strike jamb. Loose "T" masonry anchors are provided. (As an alternate 5 1/2" jamb depths can be supplied from stock with knocked-down construction. Also weld-on wood stud anchors are available for 4 1/2" and 5 1/2" jamb depths.) Frames are designed to finish flush with the floor and adjustable floor anchors are furnished. (See Page 4 for details of construction.) 4 1/2" and 5 1/2" jamb depths are held in stock for immediate shipments. For variable jamb depths, see Pages 6, 7 and 8.

All drilling for surface hardware shall be done in the field by others.

### • hardware

Mortised cylinder locks shall be heavy-duty commercial grade especially designed for hollow steel doors. Function of locks to be specified. (See page 10 for specifications.)

Cylindrical locks shall be heavy-duty commercial grade especially designed for hollow steel doors. Function of locks to be specified. (See page 11 for specifications.)

Hinges shall be regular weight 4 1/2" x 4 1/2", full mortised button tip—3 per opening. Half mortised are recommended for structural frames. (See page 12 for specifications.)

Miscellaneous hardware—closers, push plates, push bars, holders, bumpers, flush bolts, panic devices, etc. (See specifications, pages 12, 13, 14 and 15.)

All standard hardware shall have Phillips head screws. Hardware application not by Aetna Steel Products Corporation.

### • painting

Materials shall be Bonderized and given a coat of baked on gray zinc chromate rust inhibitive primer. Finish painting in field by others.



### • glazing

All glass, glazing and putty by others.

Consult back cover for Underwriter label doors and frames.

## door types and sizes

held in stock for immediate shipment

opening sizes	F	FG1	FG2	FG3	FG4	FG6	IG	IG3	IG6	FSV	FL	FG1L	FG2L	FG3L	FG4L	FG6L
<b>single swing</b>																
2'-0"																
2'-4"																
2'-6"																
2'-8"																
3'-0"																
3'-4"																
3'-6"																
3'-8"																
4'-0"																
2'-0"																
2'-4"																
2'-6"																
2'-8"																
3'-0"																
3'-4"																
3'-6"																
3'-8"																
4'-0"																
<b>pair swing</b>																
5'-0"																
6'-0"																
5'-0"																
6'-0"																

### how to order

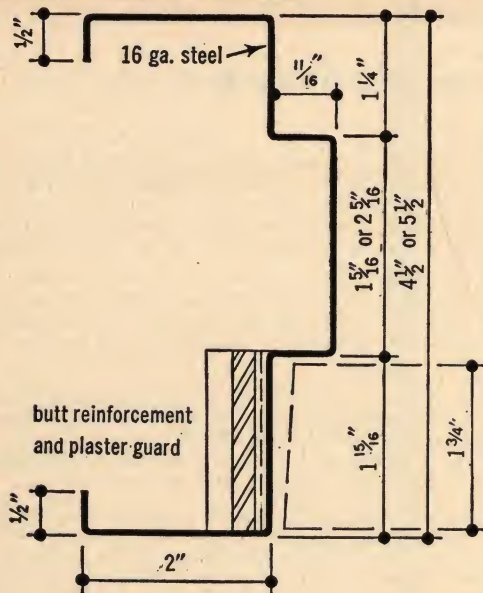
- 1 size of opening
- 2 door type
- 3 complete hardware
- 4 swing\*

\* All pairs RH active when opening in.  
All pairs LHRB active when opening out.



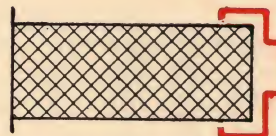
# door frame features and details

profile scale: 1/2 full size

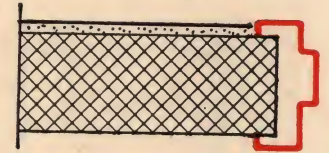


4½ and 5½ jambs held in stock for immediate shipment. See page 3 for stock sizes. Strike preparation #86 or 161. K.D. construction for 5½ jambs only.

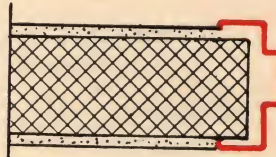
3" or 4" wall—no plaster



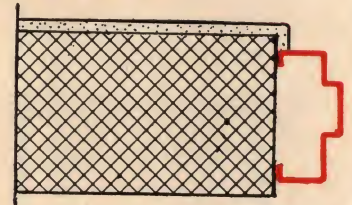
3" or 4" wall—plaster 1 side



3" or 4" wall—plaster 2 sides



6" walls or over

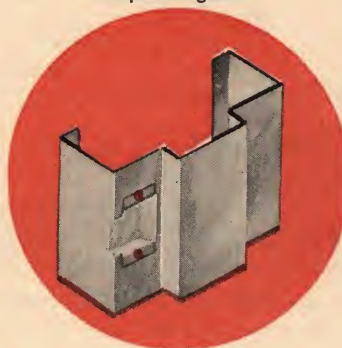
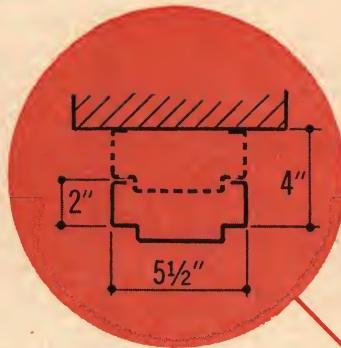
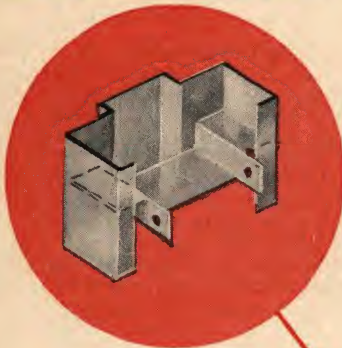


loose stud anchor for 5½" jamb only  
welded stud anchor for 4½" and 5½" jambs

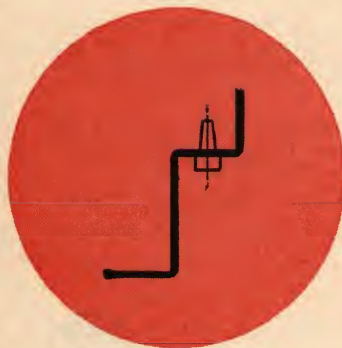
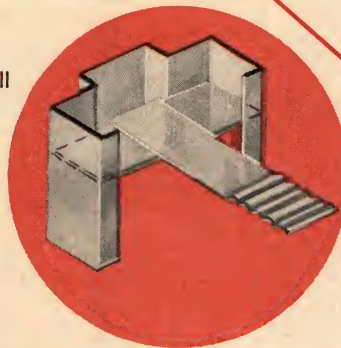
head adapter (for exposed concrete block wall)

strike reinforcement and plaster guard

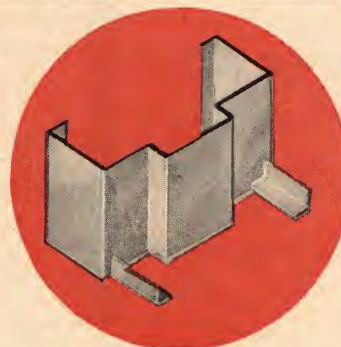
miter reinforcing plate (for 5½" KD frames only)



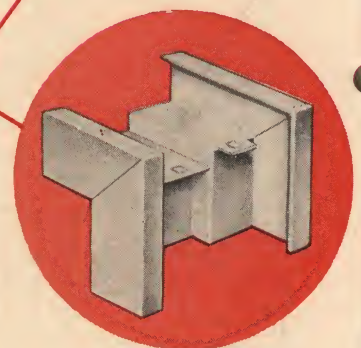
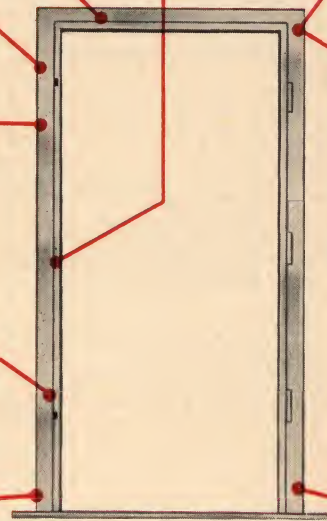
loose stud anchor masonry wall



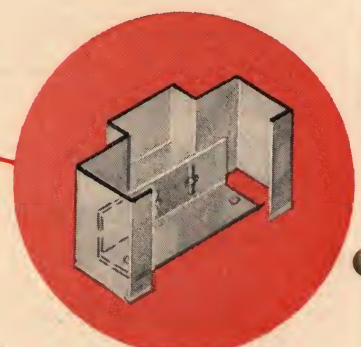
rubber door silencer



removable spreaders



arc welded miter



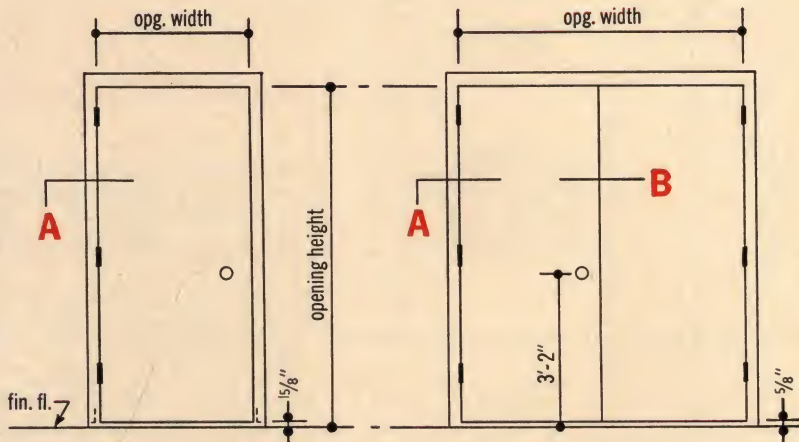
adjustable floor anchors (maximum adjustment 2")

- Avoid custom-engineering delay.
- Specify AETNAPAK IN-STOCK doors and frames, complete with hardware.



**Fyr - Chek** (underwriters "A" label)

doors/frames/hardware with single point lock  
held in stock for immediate shipment



**door swings**

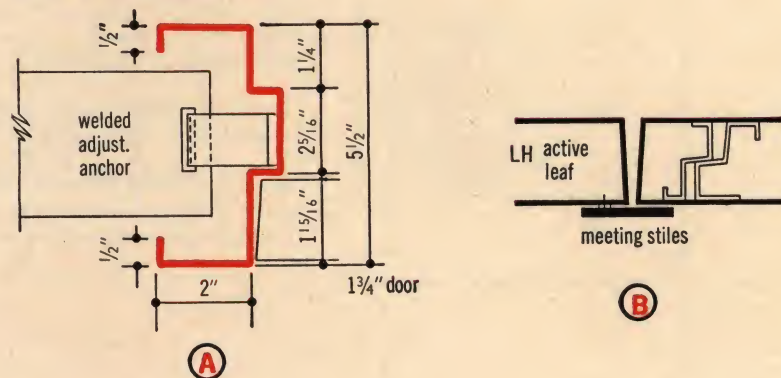
regular hands (swing in)



reverse bevel hands (swing out)



**details** (scale 3"=1'-0")



**stock sizes** ▲

	W	H	jamb
single swing	2'-6" 3'-0" 3'-6"	7'-0"	5 1/2"
pair swing	5'-0" 6'-0"		

▲ Special sizes, jamb depths and L.H. active doors can be supplied on special request.

**specifications**

(for opening in fire wall)

• single

Maximum opening size: 3'-6" x 7'-6".

• pairs

Maximum opening size: 7'-0" x 7'-6".

• frame construction

2" flat trim.

4" minimum jamb depth.

#14-gauge minimum.

1 1/2" x 1 1/2" x #14-gauge weld on floor anchors.

Bridge type wall anchors with 6" adjustments.

• door construction

Completely flush design. No exposed joints or seams. Glass lights not permitted.

#18-gauge minimum.

Underwriters approved insulation.

Thickness: 1 3/4".

One astragal required for pairs of doors.

Vertical edge of door to be reinforced by #18-gauge channel as a continuous unit. Intermediate steel stiffeners spot welded on 2" centers.

• hardware

**butts:**

Minimum size 4 1/2" x .134" thick steel for openings up to and including 3'-0" x 7'-0". Exceeding this size, use 4 1/2" x .180" thick steel butts. Openings 5'-0" or less in height, use 2 butts; for each additional 2'-6" or fraction thereof, add (1) butt. All butt reinforcements 3/16" thick. (Spring hinges, pivots, floor closers not permitted).

**lock:**

Active door leaf, use mortised or cylindrical *single point* lock as approved by Underwriters. Inactive leaf of pairs, use top and bottom flush bolts.

**notes**

1 Consult pages 10 to 15 for complete finished hardware for these openings.

2 See back cover for other classifications.



# profiles for 1 $\frac{3}{4}$ " doors

**FAST**

shipments  
not inventoried/standard-engineered

## "E" series (90° bend)

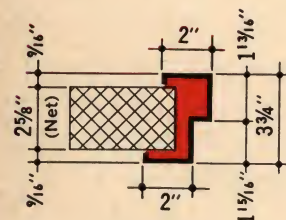
no plaster

one side plaster

two sides

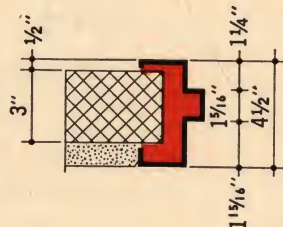
3" masonry

E1



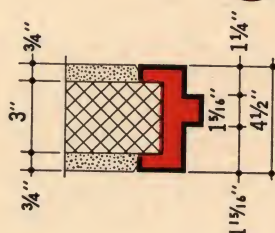
HELD IN STOCK

E2



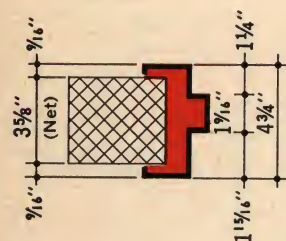
HELD IN STOCK

E3



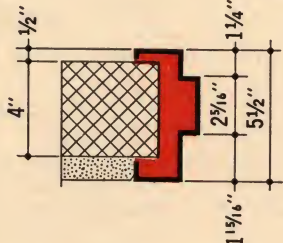
4" masonry

E4



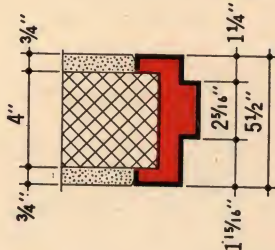
HELD IN STOCK

E5



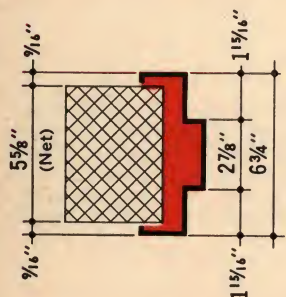
HELD IN STOCK

E6

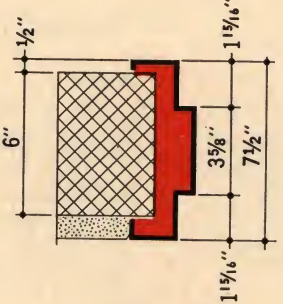


6" masonry

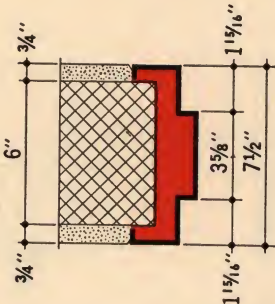
E7



E8

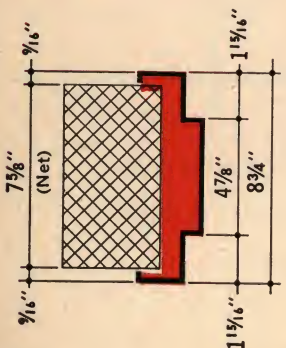


E9

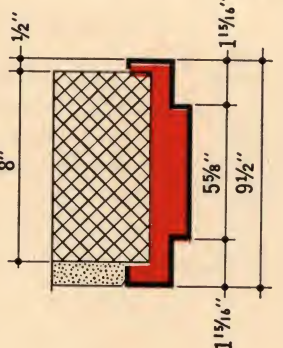


8" masonry

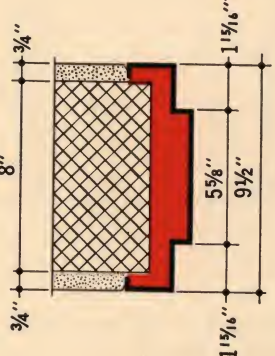
E10



E11



E12



## specifications

All frames shown on this detail to be in strict accordance with AETNAPAK standards on page 4 except for jamb depths.

Frames will be #16 gauge, trim 2" and back bands  $\frac{1}{2}$ " with 90° bends, prepared for three (3) butts  $4\frac{1}{2}$ " x  $4\frac{1}{2}$ " (.134); lock preparation #86 and #161 (specify) with AETNAPAK standard hardware locations.

Set-up type only with welded miters (no K.D.).

Surface strike S-11980—panic devices R29 & V22 #S-11980 for rim panic devices can be used only on frames with  $2\frac{5}{16}$ " stops.

Heights:  
6'8" and 7'0".

Widths:

Single swing—2'0", 2'4", 2'6", 2'8", 3'0", 3'4", 3'6", 3'8" and 4'0".

Pair swing—5'0" and 6'0".

Masonry anchors only (stud anchors for  $5\frac{1}{2}$ " frames only).

Refer to Catalog pages #2 and 3 for doors and pages 10 to 15 for hardware to fit these frames.

- Avoid custom-engineering delay.
- Specify AETNAPAK IN-STOCK or STANDARD-ENGINEERED doors and frames, complete with hardware.



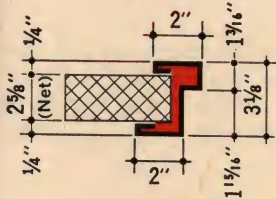
# "H" series ("dutch" bend)

no plaster

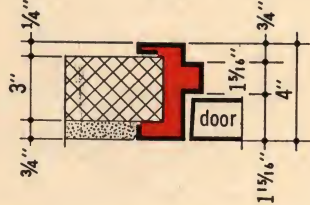
plaster  
(one side)

3" masonry

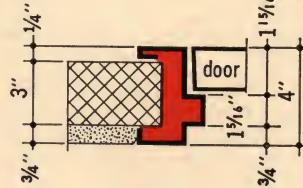
H1



H2

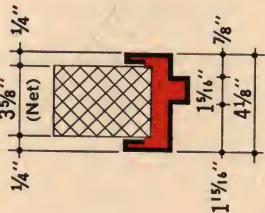


H3

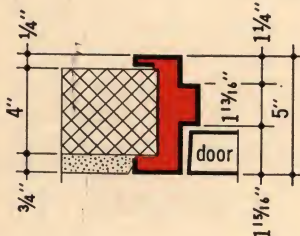


4" masonry

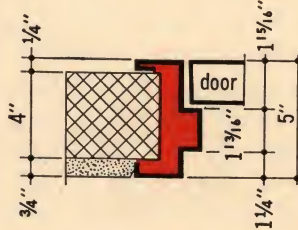
H4



H5

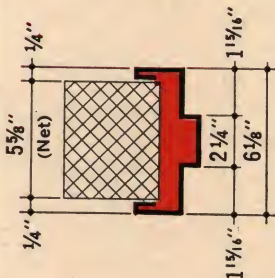


H6

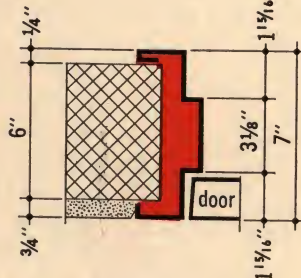


6" masonry

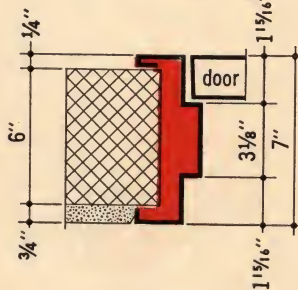
H7



H8

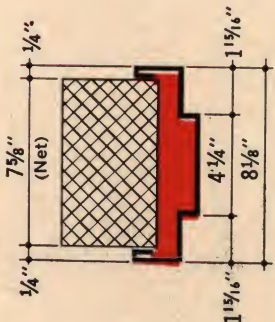


H9

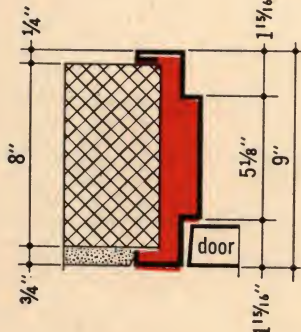


8" masonry

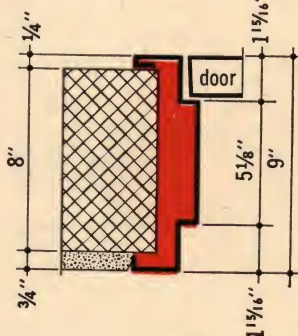
H10



H11



H12



## specifications

All frames shown on this detail to be in strict accordance with AETNAPAK standards. Frames will be #16 gauge, trim 2" and back bands 1/2" with 90° or 180° bends, prepared for three (3) butts 4 1/2" x 4 1/2" (.134); lock preparation #86 or #161 (specify) with AETNAPAK standard hardware locations.

Set-up type only with welded miters (no K.D.).

Surface strike #S-11980 for rim panic devices R29 & V22 can be used only on frames with 2 5/16" stops.

Heights:  
6'8" and 7'0".

Widths:

Single swing—2'0", 2'4", 2'6", 2'8", 3'0", 3'4", 3'6", 3'8" and 4'0".

Pair swing—5'0" and 6'0".

Masonry anchors only (stud anchors for 5 1/2" frames only).

Refer to Catalog pages #2 and 3 for doors and pages 10 to 15 for hardware to fit these frames.



# profiles for 1<sup>3</sup>/<sub>8</sub>" doors

**FAST** shipments  
not inventoried standard-engineered

## "K" series (90° bend)

### MASONRY CONSTRUCTION

no plaster	plaster	
	one side	two sides
<b>3" masonry</b> <b>K1</b> 	<b>K2</b> 	<b>K3</b> 
<b>4" masonry</b> <b>K4</b> 	<b>K5</b> 	<b>K6</b> 

### WOOD STUD CONSTRUCTION

2" wood stud	3" wood stud	4" wood stud
<b>1/2" drywall two sides</b> <b>K7</b> 	<b>K8</b> 	<b>K9</b> 
<b>plaster two sides</b> <b>K10</b> 	<b>K11</b> 	<b>K12</b> 

## specifications

All frames shown on this detail to be in strict accordance with AETNAPAK standards on page #4 except for jamb depths.

Frames will be #16 gauge, trim 2" and back bands 1/2" with 90° bends, prepared for two (2) template butts 3 1/2" x 3 1/2" (.123); strike preparation Govt. #160 (1 1/8 x 2 3/4) with AETNAPAK hardware locations.

Set-up type only with welded miters (no K.D.).

Heights:  
6'8" and 7'0".

Widths:  
Single swing—2'0", 2'4", 2'6", 2'8", 3'0".

Pair swing—5'0" and 6'0".

Masonry or stud anchors are supplied.

- Avoid custom-engineering delay.
- Specify AETNAPAK STANDARD-ENGINEERED doors and frames, complete with hardware.



# STANDARD-ENGINEERED

4 1/2 & 5 1/2 jamb depths only

strike preparation # 86 & 161

set-up only no. k. d. construction

**FAST** shipments (inventoried components)

**combinations** borrowed lights/side lights/transoms

**sizes** (clear openings)

door frames				transoms				borrowed lights (variable sizes)						side lights (variable sizes)			
S single		P pair		ST single		PT pair		BL plain		BLM mullion		BLT transom		SL plain		SLT transom	
W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H
2-0	6-8	5-0	6-8	2-6	6-8	5-0	6-8	MAXIMUM 9'-8"						MAX.	6-10	MAX.	MAX.
2-4	7-0	6-0	7-0	3-0	7-0	6-0	7-0							9-8	7-2	9-8	10-0
2-6				3-6													
2-8																	
3-0																	
3-4																	
3-6																	
3-8																	
4-0																	

MAX.-OVERALL HGT. 10'-0"

## notes

1. overall dimensions (All other dimensions noted on this page refer to clear openings.)
2. Hardware: see pages 10-15
3. Frames: see page 4 (4 1/2" and 5 1/2" jamb depths)
4. Door Types: see pages 2 and 3
5. Fastening Devices for mullions are shipped loose
6. Welded miters; no knockdown

## typical

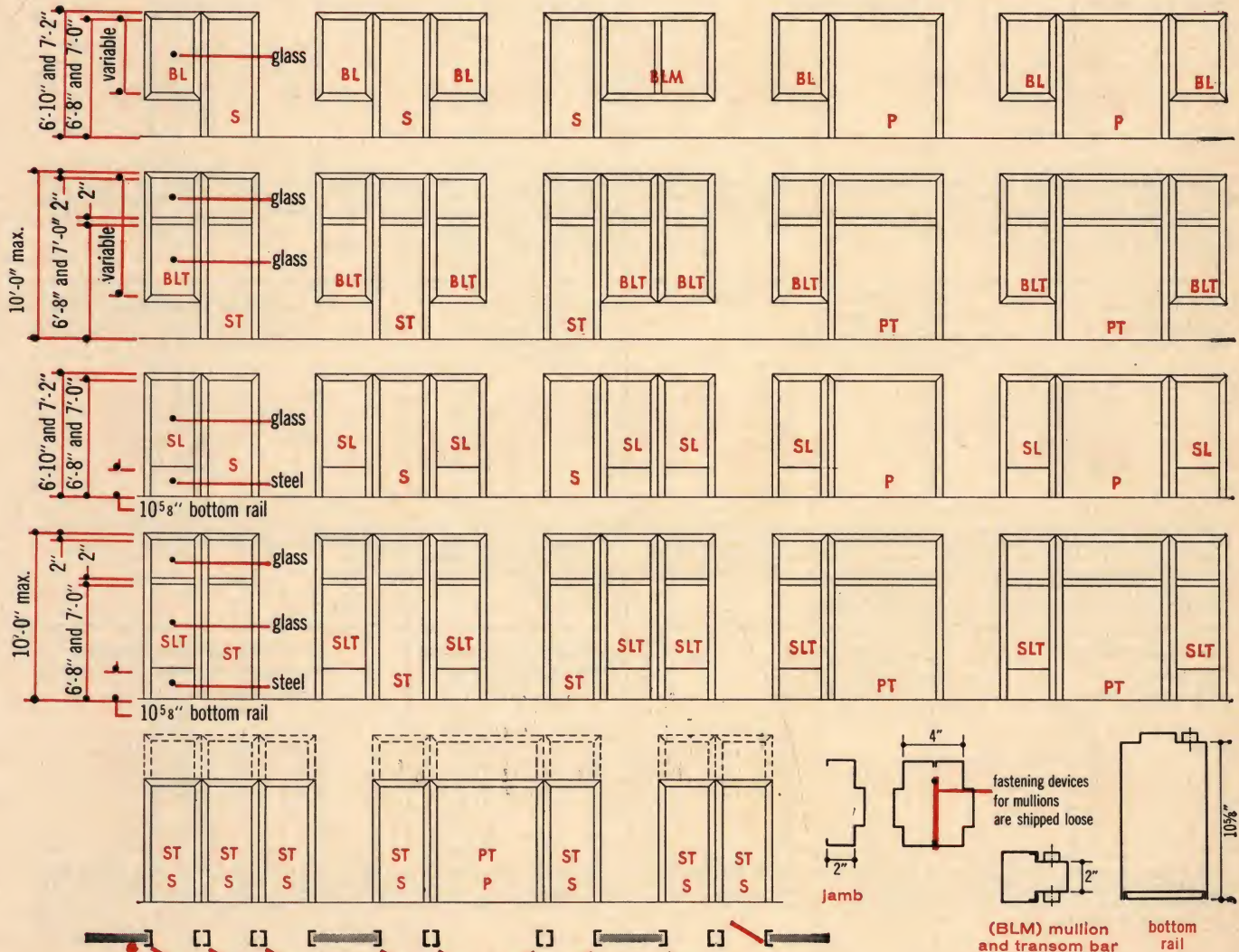
## suggested arrangements (not in scale)

S—single door frame  
P—pair door frame

ST—single door with transom  
PT—pair doors with transom

BL—borrowed light  
SL—side light

BLM—borrowed light with mullion  
BLT—borrowed light with transom  
SLT—side light with transom



**AETNA STEEL PRODUCTS CORPORATION**

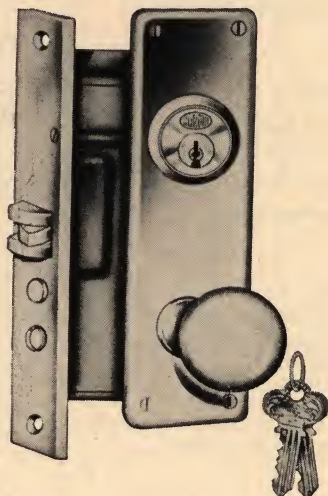
730 fifth avenue, new york 19, n. y.



All items catalogued on these pages held in stock

## standard hardware (heavy duty)

### mortise locksets • U. S. GOVERNMENT SERIES 86



#### specifications

Mortise locksets shall be:

Aetnapack heavy duty commercial grade which shall meet U. S. Government Specification FF-H-106A for 86 Series; approved by the National Board of Fire Underwriters. #7551, 7557, 7554, 7555, 7510 (no locks having dead bolts can have underwriters' approval); reversible and interchangeable in the standard lock mortise.

▲ Indicates underwriters approval

Mortise locksets shall have:

Locks: armoured front 8" x 1 1/4", strikes standard 5 3/4" x 1 1/4", backset 2 3/4"; Latch bolts: cast bronze, 5/8" throw for security, (anti-friction type for easy closing and long life); Knobs: 2 1/4" diameter seamless, cast shank; Escutcheons: 7 1/2" x 2 1/4" heavy (.050 gauge) cold forged.

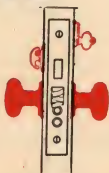
Finish shall be:

Stock US10 Dull Bronze or Stock US28 Alumilited Aluminum; or Special-to-order US26D Dull Chrome.

The following lock series will fit Aetnapack standard lock mortise: Corbin 7500, Russwin 2000, Sargent 7700, Lockwood 5100 or Yale 8000 (with a few exceptions).

#### entrance doors

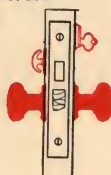
AETNAPAK No. 7543  
U. S. Gov't. No. 86A



Latch bolt operated by key from outside at all times and by knob from either side except when outside knob is locked by stop in face. Dead bolt operated by key from outside and by thumb knob from the inside.

#### office doors

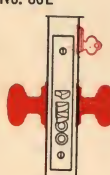
AETNAPAK No. 7523  
U. S. Gov't. No. 86B



Latch bolt operated by knobs from either side. Dead bolt operated by key from the outside and by thumb knob from the inside.

#### exit doors

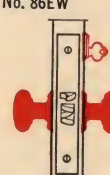
AETNAPAK No. 7551  
U. S. Gov't. No. 86E



Latch bolt operated by key from outside at all times and by knobs from either side except when outside knob is locked by stop in face.  
\* Has Auxiliary Latch.

#### storage or toilet doors

AETNAPAK No. 7557  
U. S. Gov't. No. 86EW



Latch bolt by key from the outside and knob from the inside. Outside knob always rigid.  
\* Has Auxiliary Latch.

#### store doors

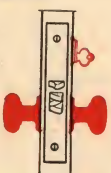
AETNAPAK No. 7554  
U. S. Gov't. No. 86G



Latch bolt operated by key from outside at all times and by knobs from either side except when outside knob is locked from inside by master key only unless otherwise specified.  
\* Has Auxiliary Latch.

#### school and classroom doors

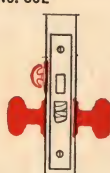
AETNAPAK No. 7555  
U. S. Gov't. No. 86J



Latch bolt operated by key from outside and knobs from either side except when outside knob is locked by key from outside. Inside knob always operative.  
\* Has Auxiliary Latch.

#### privacy doors

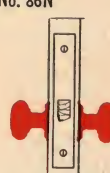
AETNAPAK No. 7520  
U. S. Gov't. No. 86L



Latch bolt operated by knobs from either side. Dead bolt operated by thumb knob from inside only. Furnished to operate by emergency key from outside.

#### latches for passage doors

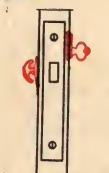
AETNAPAK No. 7510  
U. S. Gov't. No. 86N



Latch bolt operated by knob from either side at all times.

#### storage doors

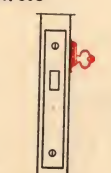
AETNAPAK No. 7313  
U. S. Gov't. No. 86P



Dead bolt operated by key from the outside and by thumb knob from the inside. No trim included. Use with push and pull sets (page 9).

#### closet doors

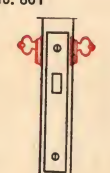
AETNAPAK No. 7311  
U. S. Gov't. No. 86S



Dead bolt operated by key from outside only. No trim included. Use with push and pull sets (page 9).

#### storage room doors

AETNAPAK No. 7312  
U. S. Gov't. No. 86T



Dead bolt operated by key from either side. No trim included. Use with push and pull sets (page 9).

#### store entrance doors

AETNAPAK No. 7588  
U. S. Gov't. None



Latch bolt operated by thumb piece from either side. Dead bolt by key from either side.

• Avoid custom-engineering delay.

• Specify AETNAPAK IN-STOCK or STANDARD-ENGINEERED doors and frames, complete with hardware.



for immediate shipment

**AETNAPAK**  
CUSTOM-STANDARDsteel  
door-and-frame  
packages

(heavy duty)

cylindrical locks • U. S. GOVERNMENT SERIES 161

**specifications**

All cylindrical locks shall be:

Aetnapak Heavy Duty Cylindrical Locks shall meet U. S. Government Specifications FF-H-106A for 161 Series; approved by National Board of Fire Underwriters; reversible.

All cylindrical locks shall have:

solid bronze self-lubricating latch bolt with full  $\frac{5}{8}$ " throw for extra security; cylinder sets with the extra protection of automatic deadlocking latch bolt;  $2\frac{1}{4}$ " dia. heavy wrought knobs steel reinforced to prevent denting; extra heavy 3" x 3" square rose plates cold forged (.080 gauge) give equivalent of cast metal trim; knob shanks of seamless tubular design to obtain the most complete torsional strength and to give balanced knob action; brass bushings to prevent wear. Front  $2\frac{1}{4}$ " x  $1\frac{1}{8}$ ". Strike  $2\frac{3}{4}$ " x  $1\frac{1}{8}$ ". Back Set  $2\frac{3}{4}$ ".

Finish shall be:

Stock US10 Dull Bronze or Stock US28 Alumilited Aluminum; or Special-to-order US26D Dull Chrome.

The following heavy duty cylindrical lock series will fit the standard lock preparation in Aetnapak doors:

Corbin 400, Russwin 400, Schlage C &amp; D, Lockwood "H" or Yale &amp; Towne 5400, Sargent Series #8 (Magna Lock)

**entrance or office doors**

AETNAPAK No. 451

U. S. Gov't. No. 161A

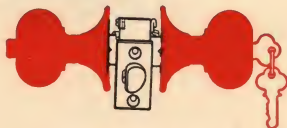


Latch bolt operated by key from the outside at all times and by knobs from either side except when outside knob is locked by turn button in inside knob. Latch bolt is automatically deadlocked when door is closed.

**office doors**

AETNAPAK No. 461

U. S. Gov't. No. 161B

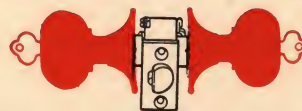


Latch bolt operated by key from the outside at all times and by knobs from either side except when outside knob is locked by pushing in button in inside knob. Turning key outside or knob inside automatically releases locking button. Closing door does not release locking button. Latch bolt is automatically deadlocked when door is closed.

**vestibule or office doors**

AETNAPAK No. 454

U. S. Gov't. No. 161C

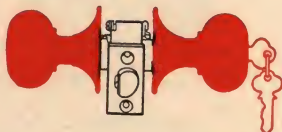


Latch bolt operated by key from outside at all time and by knobs from either side except when outside knob is locked by key in inside knob. Latch bolt is automatically deadlocked when door is closed.

**utility or storeroom doors**

AETNAPAK No. 457

U. S. Gov't. No. 161D



Latch bolt operated by knob from inside and by key from the outside. Outside knob always rigid. Latch bolt is automatically deadlocked when door is closed.

**store doors**

AETNAPAK No. 488

U. S. Gov't. No. 161G



Latch bolt operated by knobs from either side except when both knobs are locked by turning key in either knob. When both knobs are locked from either side key from either side will unlock both knobs. Latch bolt automatically deadlocks when door is closed.

**privacy doors**

AETNAPAK No. 420

U. S. Gov't. No. 161L



Latch bolt operated by knobs from either side except when outside knob is locked by pushing in button in inside knob. Turning inside knob or closing door automatically releases locking button. In case of emergency, pressure of emergency key or other pointed instrument against emergency device in center of outside knob releases locking mechanism.

**communicating doors**

AETNAPAK No. 400

U. S. Gov't. No. 161M



Latch bolt operated by knobs from either side except when turn button in either knob locks opposite knob. Latch bolt is automatically deadlocked when door is closed. To prevent accidental lockout this lock should not be used on doors between rooms which have no other entrance.

**latches for passage doors**

AETNAPAK No. 410

U. S. Gov't. No. 161N



For any door that does not require locking. Latch bolt operated by knobs from either side at all times.

**classroom doors**

AETNAPAK No. 455

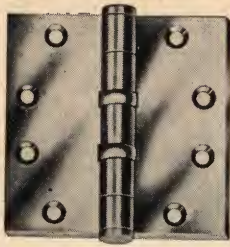
U. S. Gov't. No. 161R



Latch bolt operated by knobs from either side except when outside knob is locked by key in outside knob. Latch bolt is automatically deadlocked when door is closed. Inside knob always operative.



## hinges



full mortised



half mortised

full mortised  $4\frac{1}{2}'' \times 4\frac{1}{2}''$

### description

		government specifications
46	Plain Bearing, Steel, Loose Pin	2014½ P
BB46	Two Race Ball Bearing, Steel, Loose Pin	2010½ P
46FP	Plain Bearing, Steel, Fast Pin	2014½ P
BB46FP	Two Race Ball Bearing, Steel, Fast Pin	2010½ P

half mortised  $4\frac{1}{2}''$  (for C. I. frames only)

BB28	Two Race Ball Bearing, Steel, Loose Pin
BB28FP	Two Race Ball Bearing, Steel, Fast Pin

### specifications

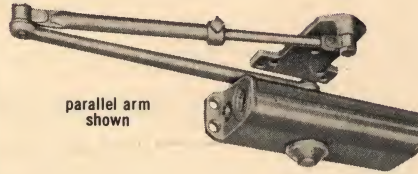
Hinges shown above are manufacturer's standard quality, size  $4\frac{1}{2}'' \times 4\frac{1}{2}''$  regular weight (.134" thick) with flat button tips, templated. Steel hinges are furnished bonderized prime painted (USP). Plain bearing hinges are not recommended for doors used above average frequency or for doors with closers; in these cases use ball bearing hinges. Fast pin hinges have a set screw in the barrel which is inaccessible when door is closed.

$1\frac{1}{2}$  pair of hinges used for each door.

On special order steel hinges may be furnished bronze plated, chromium plated or aluminum plated. Half mortised hinges are recommended only for structural frames.

All hinges have non-rising pins. Use only steel hinges for Underwriters' Label Doors.

## closers



parallel arm shown

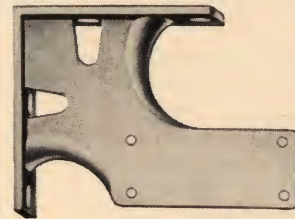
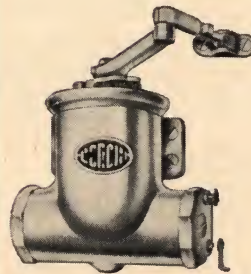
Number 1500 TRIM-LINE is a non-handed door closer for interior and exterior doors. Can be used on either right or left handed door. Available in both regular and parallel arm installations. Rack and pinion type. Blends with modern architecture.

### INTERIOR DOORS

Type of Closer	Maximum Door Size		
	2'-6" x 7'-0"	3'-0" x 7'-0"	4'-0" x 7'-0"
Regular Arm	1502	1503	1504
Parallel Arm	P 1502	P 1503	P 1504
Regular Holder Arm	1502 H	1503 H	1504 H
Parallel Holder Arm	P 1502 H	P 1503 H	P 1504 H
Reg. Fus. Link Hold Arm	—	1503 FL	1504 FL
Par. Fus. Link Hold Arm	—	P 1503 FL	P 1504 FL

### EXTERIOR DOORS

Regular Arm	1503	1504	1505
Parallel Arm	P 1503	P 1504	P 1505
Regular Holder Arm	1503 H	1504 H	1505 H
Parallel Holder Arm	P 1503 H	P 1504 H	P 1505 H



corner bracket

AETNAPAK door closers are designed to give trouble-free operation under heavy traffic conditions.

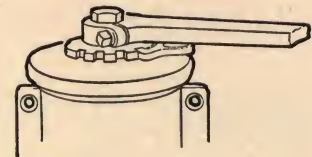
For right or left hand doors without change. They are not affected by extremes of temperature. Easily adjusted to any speed of closing through a dual valve control.

The case is cast iron, the spring is light, long and resilient. The tension is evenly distributed over twenty coils of flat wire designed to prevent external friction so as to permit the full power of the spring to be used to close the door.

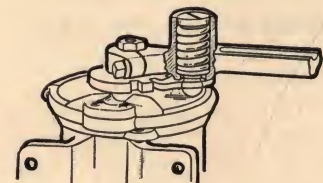
The rack and pinion keep the door under constant checking control. The liquid has a high viscosity index, excellent lubricating properties and is capable of flowing at  $-60^{\circ}\text{F}$  (below zero).

### Finishes:

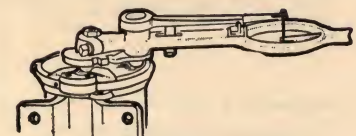
DBL (Dull Bronze Lacquer)  
SBL (Silver Bronze Lacquer)



standard



hold-open



fusible link

Closer No.	type	Gov't no.	maximum sizes		corner bracket	Gov't type
			interior	exterior		
3	standard	3001 -III	3'-0"	2'-6"	26-3*	R
4	standard	3001 -IV	3'-6"	3'-0"	26-4*	R
5	standard	3001 -V	4'-0"	3'-6"	26-5*	R
103	hold open	3001 H-III	3'-0"	2'-6"	27-3	R
104	hold open	3001 H-IV	3'-6"	3'-0"	27-4	R
105	hold open	3001 H-V	4'-0"	3'-6"	27-5	R
▲523	fusible link hold open for fire doors	3001 F-III	3'-0"	2'-6"	86-3	R
▲524	fusible link hold open for fire doors	3001 F-IV	3'-6"	3'-0"	86-4	R

\* when overhead holder (880 Series) is used substitute 27 Series bracket.  
▲ approved by National Board of Fire Underwriters.

- Avoid custom-engineering delay.
- Specify AETNAPAK IN-STOCK or STANDARD-ENGINEERED doors and frames, complete with hardware.



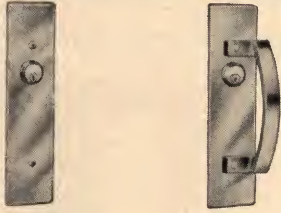
for immediate shipment



steel  
door-and-frame  
packages

## miscellaneous hardware

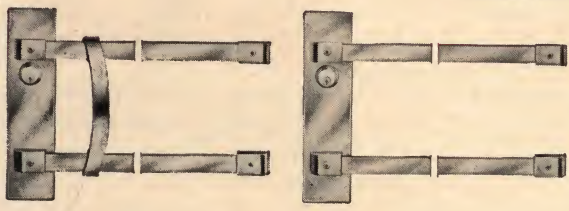
push and pull plates available in dull bronze (US10) or aluminum (US28)



790	push plate (blank)	14" x 3½"
790C	" " cut for cylinder	
790T	" " with turn piece	
786	pull on plate (blank)	
786C	" " cut for cylinder	
786T	" " with turn piece	

## push and pull bars

grips: cast bronze or aluminum  
bars: extruded aluminum or bronze  
locks not included: see page 10 for locks



230	two pull bars with grip and cover plate (blank)	
230C	" " " " " " " " cut for cylinder	
230T	" " " " " " " " with turn piece	
231	two push bars with cover plate (blank)	
231C	" " " " " " " " cut for cylinder	
231T	" " " " " " " " with turn piece	

## top and bottom flush bolts available in cast bronze (US10) or aluminum (US28)



2874	12" long plate 6¾" x 1¼" round bolt head ½" diameter throw at bolt ¾" U. S. Gov't. #1045
------	--

## door stop and holder



383	door stop	1¾" high; 1½" dia. base U. S. Gov't. #1330AE	cast bronze (US10) or aluminum (US28)
363	door stop and holder	3¾" high; 2½" dia. base U. S. Gov't. #1329E	
2861	plunger type door holder	7¼" x 2½"; 1½" dia. throw U. S. Gov't. #1156	wrought bronze (US10) dull chrome (US26D)

## kick plates

available in wrought bronze (US10) or aluminum (US28); thickness B & S; gauge = .050";  
edges beveled on three sides



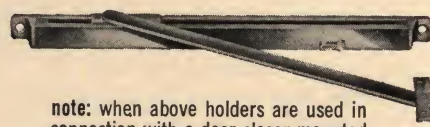
	height	widths
2316	6"	22", 26", 28", 30", 34", 38", 40", 42", 46"

## thresholds



	extruded	width	height	lengths
T4	bronze	4"	½"	2'-0", 2'-4", 2'-6", 2'-8", 3'-0", 3'-4"
T5	aluminum			3'-6", 3'-8", 4'-0", 5'-0", and 6'-0"

## overhead door holders available in bronze (US10) or dull chrome (US26D);



note: when above holders are used in connection with a door closer mounted on a bracket Series 27 bracket must be used.

will hold door open at 90°; for use on doors hung on standard 4½" x 4½" butts; applied to stop side of door

	door width	U. S. Gov't.
880B	2'-6"	#1161
" C	2'-8"	
" D	3'-0"	
" E	3'-4"	
" F	3'-6"	
" G	3'-8"	
" H	4'-0"	



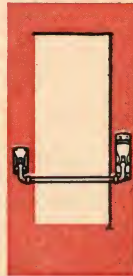
## panic devices

The purpose of panic exit devices is to provide rapid exit at all times by pushing the inside cross bar. Doors cannot be locked on the inside. They are always used on swing out doors. Latch bolts can be held retracted by "dogging" the cross bar allowing the door to be push and pull operation, requiring door closers.

### horizontal push bar • interior elevation



mortised type with government series #86 lock and mortised strike. Functions: A, B, C, and D. RHRB or LHRB. Set no. M 12. (can bear Underwriters' A, B, C, D, E labels).



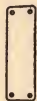
rim type with surface strike. Functions: A, B, C and D. RHRB or LHRB. Set no. R 29.



rim type with removable mullion. Functions: A x A, A x B, A x C, A x D, B x B, B x C, C x C and D x D. Set no. R 29 M. RHRB or LHRB. Specify active hand.

### exterior trim and lock functions (for both rim and mortised types)

**A**  
no outside control



Exit only. No outside control

**B**  
pull handle and cylinder



Entrance and exit. Cylinder and pull handle. Outside key retracts latch bolt.

**C**  
pull handle, cylinder and thumbpiece



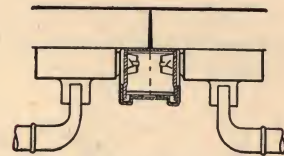
Entrance and exit. Cylinder, pull handle and thumbpiece outside. The key locks or unlocks the thumbpiece.

**D**  
cylinder and knob



Entrance and exit. Cylinder key locks or unlocks knob.

### removable mullion



2 3/8" x 2 3/4" Shipped in 7'-6" Lengths cut in field to suit conditions

### threshold

T4 Bronze T5 Aluminum

### how to order:

specify:

- 1 swing (RHRB or LHRB)
- 2 panic device set no.
- 3 function (A, B, C or D)
- 4 finish (U.S. 10 or U.S. 28). ▲
- 5 cylinder (master keyed, keyed alike, etc.)
- 6 width and height of door opening
- 7 threshold see page 14
- 8 door closers and brackets if required

### exterior



to determine the swing of doors

▲ U.S. 26D dull chrome available on special order.

## description

Rim type (R 29 and R 29 M) government type series 810.

Lock and exit mechanism factory assembled. Drop forged arm lever with Oilite bearing. Case-cast bronze or aluminum, active 9 1/4" x 3", supporting 5 1/4" x 1 13/16".

Bar-seamless tubing.

Latch bolt-swinging type, 3/4" throw.

Latch bolt can be retracted from inside at all times by slight pressure against horizontal bar affording immediate exit.

Mortise type (M 12) government type series 820.

Mortise lock-standard mortise front 8" x 1 1/4". Latch bolt-anti-friction type—5/8" throw.

Case-cast bronze or aluminum, active case 8 5/8" x 2 1/4", supporting case 5 1/4" x 2 1/4".

Vertical rod type (V 22) government type series 821.

Cast bronze or aluminum.

Active case 8 5/8" x 2 1/4".

Supporting case 5 1/4" x 2 1/4".

- Avoid custom-engineering delay.
- Specify AETNAPAK IN-STOCK or STANDARD-ENGINEERED doors and frames, complete with hardware.



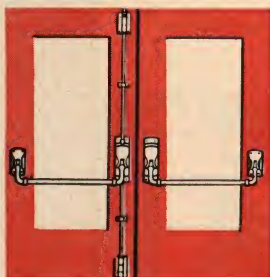
for immediate shipment

**AETNAPAK®**  
STANDARD-ENGINEERED  
and CUSTOM-STANDARD

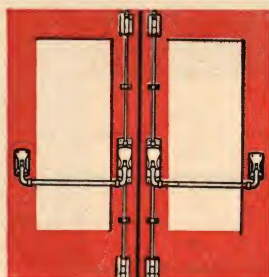
steel  
door-and-frame  
packages

16b  
Aet

push bar and vertical rod combinations • interior elevation



inactive      active  
function inactive: A only;  
function active: A, B, C and D



inactive      active  
function inactive: A only;  
function active: A and D only



functions: A and D only

Set No. V22-M12

Pairs of doors with vertical rod on inactive leaf (RHRB) and horizontal bar on active leaf (LHRB). U.S. Gov't. Series 86 mortised lock on active leaf. Open back strike on inactive leaf allows both doors to open and close independently of each other. Refer to page 14 for hardware functions (A,B,C,D.) and exterior trim for active door only. No outside trim (or functions) on inactive door. Split astragal No. A2 can be used if desired. Closers are recommended for active leaf or both leaves of doors.

Set No. 2-V22

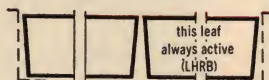
Pairs of doors with vertical rods on both leaves. Active door (LHRB). Inactive door (RHRB). See page 14 for hardware functions (A and D only) and exterior trim for active door only. No outside trim (or functions) on inactive door. Split astragal No. A2 can be used if desired. Door closers recommended on both leaves.

Set No. 1-V22

Single door with vertical rod can be either RHRB or LHRB swing. See page 14 for hardware functions (A and D only) and exterior trim.

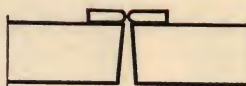
meeting stiles for  
pairs of doors

exterior side



split astragal for  
pairs of doors  
no. A2

exterior side



open back strike for pairs of doors.  
For set no. V22-M12 only.

exterior side



Arms levers drop forged with Oilite bearing.

For bolt V 22: top and bottom latches swinging type, free latching. Latches remain projected while door is open, unless horizontal bar has been locked in depressed position by dogging key holding latches retracted.

Bottom latch has independent action allowing top latch to remain locked even if bottom latch is forced out of strike or when bottom strike is obstructed.

how to order:

specify:

- 1 Panic device Set No.
- 2 Function (A, B, C or D)
- 3 Finish (U.S. 10 or U.S. 28) ▲
- 4 Cylinder (master keyed, keyed alike, etc.)
- 5 Width and height of door opening
- 6 Threshold (see page 10)
- 7 Door closers and brackets
- 8 Astragal required

Note:

Doors supplied only in hands specified above. Vertical rod devices always have inside cross bar.

▲ U.S. 26D dull chrome available on special order.

**AETNA STEEL PRODUCTS CORPORATION**

730 fifth avenue, new york 19, n. y.



in-stock

## Aetnapak underwriters label doors

New York City Board of Standards  
and Appeal labels also available.  
Contact New York office.

		3 hour	1½ hour	1 hour	1½ hour	1 hour	1 hour
doors		class "A" ▲ division and fire wall	class "B" vertical shaft	class "C" corridor and room partition	class "D" fire shutter for exterior wall severe fire exp.	class "E" opening in exterior wall	class "E" exterior fire escape
		FYR-CHEK					
max. sizes	single	3'-6" x 7'-0"	3'-6" x 7'-0"	3'-6" x 7'-0"	3'-6" x 7'-0"	3'-6" x 7'-0"	3'-6" x 7'-0"
	pairs	6'-0" x 7'-0"	6'-0" x 7'-0"	6'-0" x 7'-0"	6'-0" x 7'-0"	6'-0" x 7'-0"	6'-0" x 7'-0"
operation		swing	swing	swing	swing	swing	swing
design		flush	flush	flush	flush	flush	flush
gauge		18	18	18	18	18	18
thickness		1¾"	1¾"	1¾"	1¾"	1¾"	1¾"
insulation		UNDERWRITERS APPROVED					
exposed max. glass area		no glass	100 sq. in. wire gl.	1296 sq. in. wire gl. per light	no glass	720 sq. in. wire glass per light. Max. dim. = 48" hor. or 54" vertical	
depth of moulding		none	¾"	¾"	¾"	¾"	¾"
astragal		one side	one side	one side	one side	one side	one side
frames		"set-up" types only 14 gauge	"set-up" types only 16 gauge	"set-up" types only 16 gauge	"set-up" types only 16 gauge	"set-up" types only 16 gauge	"set-up" types only 16 gauge
max. sizes	single	3'-6" x 7'-0"	3'-6" x 7'-0"	3'-6" x 7'-0"	3'-6" x 7'-0"	3'-6" x 7'-0"	3'-6" x 7'-0"
	pairs	6'-0" x 7'-0"	6'-0" x 7'-0"	6'-0" x 7'-0"	6'-0" x 7'-0"	6'-0" x 7'-0"	6'-0" x 7'-0"
jamb thickness		5½"	5½"	5½"	5½"	5½"	5½"
height of stop		¾"	1¼"	1¼"	1¼"	1¼"	1¼"
width of trim		2"	2"	2"	2"	2"	2"
notes		Frames anchored to walls with expansion bolts not permitted. Frames must be expansion bolted to floor and anchored in walls with built in anchors spaced at least (2) for 5'-0" height exp.—frames in excess of 5'-0" height are to have (1) anchor for each 2'-6" in height or fraction thereof per jamb. All frames must be "set-up" type—no knock down.  No labels will be allowed for {mullion swing-unit frames transom frames sliding doors louvers					
hardware		▲ See page 5 for full information on AETNAPAK FYR-CHEK A-LABEL door with single-point lock.					
size butts		4½" x 4½" standard weight steel butts—one for each 2'-6" of height of opening, or fraction thereof. For class A only: doors exceeding 3'-0" x 7'-0" require heavy duty steel butts .180					
locks or latches		Standard knob lock or latch having ½" min. throw or panic device for s/sw doors. P/sw doors must have ¾" throw. For class A only (mortise or cylindrical): Active leaf must have single point lock with ¾" throw.					
inactive leaf hardware for pairs of doors		Inactive leaf of pairs of doors must have top and bottom bolts.					

Printed in U. S. A.

## AETNA STEEL PRODUCTS CORPORATION

EXECUTIVE OFFICES

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JUdson 6-2525

PLANT

Pottsville, Pa.



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